

GROUND MOUNTED FACILITIES

Light Poles

1. Use only in parking lots or along pedestrian paths. Not to be used as a means to gain height in areas where a light standard is unnecessary.
2. New light standard design must be consistent and compatible to the surrounding area.
2. To the extent feasible, match design, material and color of existing light poles.
3. If possible, replicate height of existing poles. Significant height increase of 5' or more can only be supported if the design integrates with the surrounding environment.
4. If utilizing more than one pole, space appropriately throughout property. Consideration must be given to existing vertical elements before pursuing new light pole(s).
5. All cables and conduit to and from the light standard is expected to be routed from underneath the caisson. No doghouse will be allowed.
6. All antennas shall be concealed inside a raydome of a reasonable diameter. The length of the raydome shall be not greater than 1/3 length of the height of the proposed light pole.



Left: Three (3) antennas inside a raydome with the conduits routed up underneath the caisson and into the new light pole.
Right: Two (2) antennas inside a raydome with the conduits also routed up underneath the caisson and into the new light pole



Introduction
1- Design Guideline Objectives

Building Collocations
2-Complete Concealment
3-FRP Installation
5-Facade Mounted Antennas

Ground Mounted Facilities
8-Flag Poles
10-Faux Trees
12-Ball Field Lights
13-Light poles

Ground Mounted Facilities
14-Public Right of Way
16-Pipe Mounts
17-Towers

Associated Equipment
19-Cable Tray
20-Enclosures & Equipments
22-Generators

23-Landscape

25-Coastal Height Proposition D

GROUND MOUNTED FACILITIES

Right-of-Way

Distributed Antenna System

1. To the extent possible, all wireless communication carriers shall consider utilizing Distributed Antenna System (DAS) as a form of installation to right of way facilities. Such design is especially encouraged when a search ring is identified within a residential zone.

2. All equipment associated with a DAS installation shall be installed directly onto an existing right of way pole structure painted and textured to match.



Here are examples of the Distributed Antenna System's appearance within the City of San Diego.



Introduction
1- Design Guideline Objectives

Building Collocations
2-Complete Concealment
3-FRP Installation
5-Facade Mounted Antennas

Ground Mounted Facilities
8-Flag Poles
10-Faux Trees
12-Ball Field Lights
13-Light poles

Ground Mounted Facilities
14-Public Right of Way
16-Pipe Mounts
17-Towers

Associated Equipment
19-Cable Tray
20-Enclosures & Equipments
22-Generators

23-Landscape

25-Coastal Height Proposition D

GROUND MOUNTED FACILITIES

Right-of-Way

Full size antennas on light standards/traffic signal

3. If utilizing full antenna facility, the replacement poles should match height, color and material of original poles.

4. Exterior panel antennas should not exceed the height of the pole.

5. Utilize brackets that allow antennas to be mounted no more than 4" from the pole.

6. No looping cables.

7. All replacement or new poles must comply with all city ordinances and policies.

8. To the extent possible, the equipment shall be minimally visible through the use of underground vault.

If this cannot be achieved, above ground cabinets must be designed and located in an area with minimal visual impact.

9. All disturbed landscape shall be replaced and re-planted in accordance to the Landscape Development Regulations.



Above: Project above includes an underground vault with two air vents. The antennas are exterior mounted onto a 16" diameter pole.



Left: Project is located in UTC, with the antennas concealed inside a 16" diameter raydome. The facility also contains an underground vault with two air vents.

Introduction
1- Design Guideline Objectives

Building Collocations
2-Complete Concealment
3-FRP Installation
5-Facade Mounted Antennas

Ground Mounted Facilities
8-Flag Poles
10-Faux Trees
12-Ball Field Lights
13-Light poles

Ground Mounted Facilities
14-Public Right of Way
16-Pipe Mounts
17-Towers

Associated Equipment
19-Cable Tray
20-Enclosures & Equipments
22-Generators

23-Landscape

25-Coastal Height Proposition D

GROUND MOUNTED FACILITIES

Pipe Mounts

1. Use in conjunction with backdrop (either hillside or structure) and sufficient landscape to screen antennas.
2. Add landscape to screen if site is devoid of landscape



Left: Pipe mounted shall be only mounted on hillsides at a relatively low distance from the finished grade. Noticed how all the pipe mounts are painted to match the landscaping to help as a form of camouflaging.

3. All pipes and conduits shall be painted to match.
4. To the extent possible, all conduits shall be routed with minimal looping.

Introduction
1- Design Guideline Objectives

Building Collocations
2-Complete Concealment
3-FRP Installation
5-Facade Mounted Antennas

Ground Mounted Facilities
8-Flag Poles
10-Faux Trees
12-Ball Field Lights
13-Light poles

Ground Mounted Facilities
14-Public Right of Way
16-Pipe Mounts
17-Towers

Associated Equipment
19-Cable Tray
20-Enclosures & Equipments
22-Generators

23-Landscape

25-Coastal Height Proposition D